THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE
http://www.acs.uwinnipeg.ca

Course Number: ACS-4901-001
Course Name: Senior Systems Development Project Course

Instructor Information

Instructor: James Deng **Office:** 3D17 **Email:** j.deng@uwinnipeg.ca
Instructor: Simon Liao **Office:** 3D31 **Email:** s.liao@uwinnipeg.ca

Office Hours: TBD
Class Meeting Time: Orientation Class will be held on Tuesday Sep. 3 (11:30-12:45)
Meeting Room: 3C13

Important Dates

Fall Reading Week: October 13-19, 2019 (no classes)
Winter Reading Week: February 16-22, 2020 (no classes)

Final Withdrawal Date without academic penalty: February 14, 2019
(A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date.)

The University is closed for holidays: September 2 (Labour Day), October 14 (Thanksgiving Day), November 11 (Remembrance Day), December 23-January 1 (December break), February 17 (Louis Riel Day), April 10 (Good Friday).

Deadlines[1]

• Submission of proposed team member roles	Week of September 9
• Initial Meeting with the Project Sponsor	Week of September 16
• Project Proposal	Week of September 23
• Project Plan	Week of September 30
• Systems Study Review	Week of November 4, 2019
• Detailed Design Review	Week of January 6, 2020
• Development Review	Week of February 3, 2020

[1] Please refer to the ***Senior Systems Development Course Standards Handbook and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2019 for more details.

• Delivery of the system to your user for testing	Week of February 10, 2020
• Final turnover to user; sign-off from user	Week of March 9, 2020
• Project Completion Seminar and System Demo.	Friday, March 27, 2020
• Sign-off on Course Completion Checklist.	Week of March 30, 2020
• Sign-off on completed repository	April 3, 2020

Course Objectives/Learning Outcomes[2]

- To provide experience in planning and executing a project through the entire software life cycle
- To gain hands-on experience in major aspects of project management.
- To provide experience in working in teams, end-users and faculty under minimal supervision
- To develop technical writing and communication skills.

Evaluation Criteria

Team Component (35%)

System Quality / Functionality • Overall design • Match with user requirements • Technical reliability • System features (e.g. input forms, screens and reports, system performance) • Flexibility for future improvements	**Possible Marks (15%)**
Documentation • All systems documentation and project documentation such as Proposal, Project Plans, Architectural Plans, SSR, DDR, Project Completion Report, Technical and User Manuals, Correspondence, Project Repository, Program source code.	**Possible Marks (10%)**
Project Management • All team members' collective contribution to ensuring that the project can be managed efficiently and effectively. This includes meeting deadlines and equitable distribution of workload.	**Possible Marks (10%)**

[2] Please refer to the ***Senior Systems Development Course Standards Handbook and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2019 for more information.

Individual Component (65%)

Individual Contribution • Quality of your own deliverables • Commitment to the project • Quality, thoroughness and honesty of peer evaluations • Ability to communicate with end-users, instructors, team members and technical support personnel	**Possible Marks (35%)**
Presentation Content/Skills • Systems Study Review • Project Completion Seminar • Development Review/Testing • Systems Demonstration	**Possible Marks (20%)**
Individual Time Management • Ability to meet your own task deadlines	**Possible Marks (5%)**
Participation • Preparedness for and participation in, and quality of contribution to team meetings	**Possible Marks (5%)**

Final Letter Grade Assignment

Historically, numerical percentages have been converted to letter grades using the following scale. However, instructors can deviate from these values based on pedagogical nuances of a particular class, and final grades are subject to approval by the Department Review Committee.

A+	90+ - 100%	B	70 - 74%	F	below 50%
A	85 - 90%	C+	65 - 69%		
A-	80 - 84%	C	60 - 64%		
B+	75 - 79%	D	50 - 59%		

Midterm Mark Breakdown (30%)

Team component: **7%** out of 35% (total)
Individual Contribution **10%** out of 35% (total)
Presentation Content/Skills (SSR) **8%** out of 20% (total)
Individual Time Management **2.5%** out of 5% (total) from September to December
Participation **2.5%** out of 5% (total) from September to December

NOTE: Peer evaluations will be required by each student at the end of Fall term and at the end of the course.

Email Communication

Emails from accounts at uwinnipeg.ca are usually not filtered by the UofW email filter. Thereby it is recommended electronic communication used for the course utilize a UofW email account to minimize the risk of filtering. Students must put 4901 in the subject line of the email.

Required Text Book

- Past Project Repositories
- ***Senior Systems Development Course Standards and Project Handbook***, Applied Computer Science Department, University of Winnipeg, 2019.

Prerequisite and restriction Information* (This information can be found in the UW Undergraduate Academic calendar)

- **Prerequisites**: A grade of at least C in ACS-2814/3 (or the former ACS-2914/3), ACS-3901/3, ACS-3902/3, and ACS-3913/3, and a minimum average GPA of 2.0 in all ACS.xxxx courses previously taken.
- **Restrictions**: Students cannot hold credit in this course and the former 92/91.3920/6.

Services for Students

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 204-786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential.
https://www.uwinnipeg.ca/accessibility-services.

Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the 2019-20 Undergraduate Academic Calendar online at http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf

All students, faculty and staff have the right to participate, learn, and work in an environment that is free of harassment and discrimination. The UW Respectful Working and Learning Environment Policy may be found online at https://www.uwinnpeg.ca/respect.

Misuse of Computer Facilities, Plagiarism, and Cheating

Academic dishonesty is a very serious offense and will be dealt in accordance with the University's policies.

Avoiding Academic Misconduct and Non-academic Misconduct. Students are encouraged to familiarize themselves with the Academic Regulations and Policies found in the University Academic Calendar at:
https://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf

Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals) and 10 (Grade Appeals). Please note, in particular, the subsection of Student Discipline pertaining to plagiarism and other forms of cheating.

Detailed information can be found at the following:

- Academic Misconduct Policy and Procedures: https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-policy.pdf and https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-procedures.pdf
- Non-Academic Misconduct Policy and Procedures: https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-policy.pdf and https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-procedures.pdf

Misuse of Filesharing Sites. Uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves "aiding and abetting" plagiarism. Students who do this can be charged with Academic Misconduct.

Avoiding Copyright Violation. Course materials are owned by the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides. Students who upload these materials to filesharing sites, or in any other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also seek prior permission of the instructor /presenter before photographing or recording slides, presentations, lectures, and notes on the board.

Class Cancellation, Correspondence with Students and Withdrawing from Course

When it is necessary to cancel a class due to exceptional circumstances, the course instructor will make every effort to inform students via uwinnipeg email (and/or using the preferred form of communication, as designated in this outline), as well as the Departmental Assistant and Chair/Dean so that class cancellation forms can be posted outside classrooms.

Students are reminded that they have a responsibility to regularly check their uwinnipeg e-mail addresses to ensure timely receipt of correspondence from the University and/or the course instructor**.**

Please let course instructor know if you plan on withdrawing from the course. Note that withdrawing before the VW date does not necessarily result in a fee refund.